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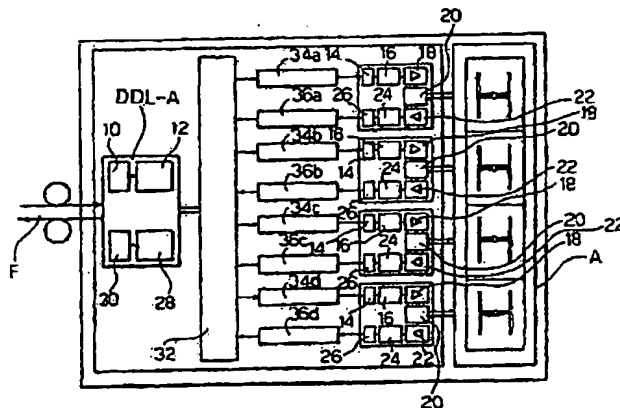
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(54) Title: ANTENNA SYSTEM AND METHOD FOR CONFIGURING A RADIATING PATTERN



(57) **Abstract:** The radiation characteristics of an antenna are made configurable including in the antenna (A) a plurality of radiating elements and associating to each of said radiating elements a respective chain for processing the signal in transmission and/or reception, comprising: - a module for weighting digital signals (34a, 34b, 34c, 34d; 36a, 36b, 36c, 36d) capable of applying to a digital signal at least a respective weighting coefficient, and - an antenna conversion set (16 to 26) interposed between the module for weighting digital signals and one of the radiating elements of the antenna, the antenna conversion set operating on a digital signal on the side of the signal weighting module and on an analogue signal on distributed on the processing chains associated to each radiating element of the antenna (A) propagates (in transmission and/or reception), while respective weight coefficients are applied to said digital signal weighting modules (34a, 34b, 34c, 34d; 36a, 36b, 36c, 36d). said weighting coefficients determine the radiation diagram of the antenna.

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